DOCUMENT RESUME

ED 262 044 TM 850 498

TITLE	Provincial Report: Grade 12 Diploma Examinations. January 1985 Administration. Student Evaluation.
INSTITUTION	Alberta Dept. of Education, Edmonton. Student Evaluation and Data Processing Branch.
PUB DATE	Apr 85
NOTE	53p.
PUB TYPE	Reports - Evaluative/Feasibility (142) -- Statistical Data (110)
EDRS PRICE	MF01/PC03 Plus Postage.
DESCRIPTORS	Achievement Tests; Biology; Chemistry; English; Foreign Countries; Grade 12; Grades (Scholastic); *Graduation Requirements; High Schools; *Minimum Competency Testing; Physics; Raw Scores; *Scores; Secondary School Mathematics; Social Studies; State Norms; *State Programs; Student Certification; *Testing Programs; *Test Results
IDENTIFIERS	Alberta; *Alberta Grade Twelve Diploma Examinations

ABSTRACT

Results of the Alberta, Canada Grade 12 Diploma Examinations Program are presented for the January 1985 test administration. All twelfth grade students are required to pass at least one of these tests in order to receive a high school diploma. Some students also receive course credit by passing the appropriate examination. Examinations are available for grades 10, 11, and 12. Two types of diplomas are awarded, the General and the Advanced High School Diploma. An Award of Excellence is awarded to students achieving high scores on the diploma examinations. The bulk of this document consists of test results for the seven examinations: (1) English 30, administered to 7,986 students; (2) English 33, 4,308 students; (3) Social Studies 30, 7,760 students; (4) Mathematics 30, 7,954 students; (5) Biology 30, 6,230 students; (6) Chemistry 30, 5,955 students; and (7) Physics 30, 2,962 students. All tests include both multiple choice and written response or essay items; French-language tests are also available. The grades assigned to students scoring in particular ranges are given, as well as the percentage of students scoring in that range. Average scores and standard deviations are also included. (GDC)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

BEST COPY AVAILABLE

ED262044

Provincial Report

Grade 12 Diploma Examinations
January 1985 Administration

April 1985

This report contains the statistical summary of the provincial results for the January 1985 administration of the Grade 12 diploma examinations in English 30, English 33, Social Studies 30, Mathematics 30, Biology 30, Chemistry 30, and Physics 30.

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it.

Minor changes have been made to improve reproduction quality.

Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

Student Evaluation

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY
Starr, Jane

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

Alberta
EDUCATION

TM 850 498

DISTRIBUTION:

School Principals
Superintendents of Schools
The Alberta Teachers' Association
Alberta School Trustees' Association
Alberta Education
General Public Upon Request

BEST COPY AVAILABLE

TABLE OF CONTENTS

		PAGE
Section 1:	Grade 12 Diploma Examinations Program	1
Section 2:	English 30 Diploma Examination	3
Section 3:	English 33 Diploma Examination	9
Section 4:	Social Studies 30 Diploma Examination	16
Section 5:	Mathematics 30 Diploma Examination	21
Section 6:	Biology 30 Diploma Examination	27
Section 7:	Chemistry 30 Diploma Examination	33
Section 8:	Physics 30 Diploma Examination	38
Section 9:	Summary of Results	43

LIST OF TABLES

TABLE	(from Section 2)	PAGE
1	English 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	3
2	English 30 Multiple Choice and Written Response Raw Score Totals	3
3	January 1985 English 30 Diploma Examination Blueprint Part A: Written Response	4
4	Percentage Distribution of Scores on English 30 Part A Minor Assignments (Personal Response and Critical Response)	5
5	Percentage Distribution of Scores on English 30 Part A Major Assignment	5
6	January 1985 English 30 Diploma Examination Blueprint Part B: Reading (Multiple Choice)	6
7	Raw Score Results for English 30 Part B	7
8	English 30 Results for Individual Multiple-Choice Questions	8
	(from Section 3)	
9	English 33 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	9
10	English 33 Multiple Choice and Written Response Raw Score Totals	9
11	January 1985 English 33 Diploma Examination Blueprint Part A: Written Response	10
12	Percentage Distribution of Scores on English 33 Part A Section I: Personal Response to Literature	11
13	Percentage Distribution of Scores on English 33 Part A Section II: Functional Writing	11
14	Percentage Distribution of Scores on English 33 Part A Section III: Response to Visual Communication	12
15	January 1985 English 33 Diploma Examination Blueprint Part B: Reading (Multiple Choice)	13
16	Raw Score Results for English 33 Part B	14
17	English 33 Results for Individual Multiple-Choice Questions	15

LIST OF TABLES (Continued)

TABLE		PAGE
	(from Section 4)	
18	Social Studies 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	16
19	Social Studies 30 Multiple Choice and Written Response Raw Score Totals	16
20	January 1985 Social Studies 30 Diploma Examination Blueprint Part A: Multiple Choice	17
21	Raw Score Results for Social Studies 30 Part A	18
22	Social Studies 30 Results for Individual Multiple-Choice Questions	19
23	January 1985 Social Studies 30 Diploma Examination Blueprint Part B: Written Respons	20
24	Percentage Distribution of Scores on Social Studies 30 Part B	20
	(from Section 5)	
25	January 1985 Mathematics 30 Diploma Examination Blueprint	21
26	Mathematics 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	22
27	Mathematics 30 Multiple Choice and Written Response Raw Score Totals	23
28	Mathematics 30 Provincial Raw Score Averages for Subtests	23
29	Mathematics 30 Provincial Raw Score Averages for Cognitive Levels	24
30	Mathematics 30 Results for Individual Multiple-Choice Questions	25
31	Mathematics 30 Distribution of Marks for Written-Response Questions	26
32	Mathematics 30 Average Marks Awarded for Written-Response Questions	26

LIST OF TABLES (Continued)

TABLE		PAGE
	(from Section 6)	
33	January 1985 Biology 30 Diploma Examination Blueprint	27
34	Biology 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	28
35	Biology 30 Multiple Choice and Written Response Raw Score Totals	28
36	Biology 30 Provincial Raw Score Averages for Subtests	29
37	Biology 30 Provincial Raw Score Averages for Cognitive Levels	30
38	Biology 30 Results for Individual Multiple-Choice Questions	31
39	Biology 30 Distribution of Marks for Written-Response Questions	32
40	Biology 30 Average Marks Awarded for Written-Response Questions	32
	(from Section 7)	
41	January 1985 Chemistry 30 Diploma Examination Blueprint	33
42	Chemistry 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	34
43	Chemistry 30 Multiple Choice and Written Response Raw Score Totals	34
44	Chemistry 30 Provincial Raw Score Averages for Subtests	35
45	Chemistry 30 Provincial Raw Score Averages for Cognitive Levels	35
46	Chemistry 30 Results for Individual Multiple-Choice Questions	36
47	Chemistry 30 Distribution of Marks for Written-Response Questions	37
48	Chemistry 30 Average Marks Awarded for Written-Response Questions	37

LIST OF TABLES (Continued)

TABLE		PAGE
	(from Section 8)	
49	January 1985 Physics 30 Diploma Examination Blueprint	38
50	Physics 30 Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores	39
51	Physics 30 Multiple Choice and Written Response Raw Score Totals	39
52	Physics 30 Provincial Raw Score Averages for Subtests	40
53	Physics 30 Provincial Raw Score Averages for Cognitive Levels	40
54	Physics 30 Results for Individual Multiple-Choice Questions	41
55	Physics 30 Distribution of Marks for Written-Response Questions	42
56	Physics 30 Average Marks Awarded for Written-Response Questions	42
	(from Secton 9)	
57	Distribution of Student Marks in Diploma Examination Courses January 1985 Examination Administration and June 1984 Final Course Mark	43

ACKNOWLEDGMENTS

The successful administration of the January 1985 Grade 12 diploma examinations would have been impossible without substantial contributions from many people, particularly the administrators, teachers, and students, who extended their full co-operation.

The technical expertise and advice of the Examination Review committees regarding design, development, and reporting have also been particularly valuable. These committees have representation from:

The Alberta Teachers' Association
The Conference of Alberta School Superintendents
The Universities Co-ordinating Council
The Public Colleges of Alberta
Alberta Education

The contribution of all of these groups is gratefully acknowledged.

Lloyd E. Symyrozum
Director
Student Evaluation Branch

SECTION 1: GRADE 12 DIPLOMA EXAMINATIONS PROGRAM

Introduction

The Grade 12 Diploma Examinations Program, which is an integral part of the high school diploma requirements, is intended to develop and maintain excellence in educational standards through certification of academic achievement. All Grade 12 students in Alberta are now required to write at least ONE diploma examination to receive a high school diploma. Also, mature students may receive credits for a Grade 12 course by writing the appropriate diploma examination without registering in the course.

The Diploma Examinations Program consists of course-specific examinations that are based on the prescribed *Program of Studies for Senior High Schools* for the following Grade 12 courses: English 30, English 33, Social Studies 30, Mathematics 30, Biology 30, Chemistry 30, and Physics 30. Except for English 30 and English 33, the diploma examinations are available in French translation on request. The diploma examinations are administered three times yearly, in January, June, and August.

Alberta Education issues two distinct high school diplomas: the General High School Diploma and the Advanced High School Diploma.

General High School Diploma

To earn a General High School Diploma, a student must obtain course credit in either English 30 or English 33 and obtain 100 credits distributed over courses as specified in the *Junior-Senior High School Handbook*. Some students who are working toward the general diploma may wish to obtain credits in other diploma examination courses (i.e., Social Studies 30, Mathematics 30, Biology 30, Chemistry 30, and Physics 30). To obtain credits in these courses, a student must also write the appropriate diploma examination regardless of the type of diploma he wishes to receive.

Advanced High School Diploma

The Advanced High School Diploma represents achievement in an academic program that includes language arts (English), social studies, mathematics, and science. To earn an Advanced High School Diploma, a student must satisfy the current course and credit requirements for a General High School Diploma, and obtain course credits in English 30, Social Studies 30, Mathematics 30, and ONE of Biology 30, Chemistry 30, or Physics 30.

Awarding of Course Credits

Grade 10 and Grade 11 Courses. To obtain credits in Grade 10 (10-level) and Grade 11 (20-level) courses, a student must earn a final mark of 40% or better. A student who has achieved a mark of 50% or higher in a given course is eligible to take the next or higher-rank high school course in that sequence.

Grade 12 Courses. To obtain credit in a Grade 12 (30-level) course, a student must earn a final mark of 50% or better. To obtain credit in a Grade 12 diploma examination course, a student must write the appropriate diploma examination and attain a final blended mark of 50% or better. The final blended mark is made up of 50% of the mark awarded by the school and 50% of the diploma examination mark. For example, a student taking Physics 30 might have a mark of 45% from his school and a mark of 57% on the diploma examination. This student would earn credits for Physics 30 because his final mark would be 51%, which is the average of the school and examination marks. For mature students who do not have a school mark or who have a school mark lower than the examination mark, the examination mark is the final mark.

Award of Excellence

When candidates for an Advanced High School Diploma obtain a final average of 80% or higher on the four required diploma examination courses with not less than 65% in any one of these four required courses, they receive an Award of Excellence. This Award of Excellence is noted on the student's Advanced High School Diploma.

When a student writes two or three of the diploma examinations in Biology 30, Chemistry 30, and Physics 30, the highest of these final course marks is used for diploma purposes and in the calculation of the average for the Award of Excellence.

SECTION 2: ENGLISH 30 DIPLOMA EXAMINATION

The English 30 Diploma Examination consists of two parts: Part A: Written Response and Part B: Reading (Multiple Choice), each worth 50% of the total examination mark.

Table 1 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in English 30. Table 2 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 7986 students. Differences between total averages and component averages are due to rounding.

Table 1

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
English 30

Score	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark
A (80-100%)	10.2	5.1	5.4
B (65-79%)	39.9	35.0	39.9
C (50-64%)	42.0	48.1	49.2
F (0-49%)	7.9	11.8	5.5
Average (%)	64.2	61.9	63.5
Standard Deviation	11.5	11.0	10.0

Table 2

Multiple Choice and Written Response Raw Score Totals
English 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Part A: Written Response	50	50	29.5	6.7
Part B: Multiple Choice	78	50	50.5	9.2

Table 3

January 1985 English 30 Diploma Examination Blueprint
Part A: Written Response

Description of the Writing Assignment	Reporting Category	Proportion of Total Mark
Minor Assignments		
The two writing assignments are connected to the reading of literary selections contained in the examination. In Assignment One, the student is required to respond to the selections in a personal context. In Assignment Two, the student is required to understand, analyze, and evaluate techniques used in literature and to synthesize his thoughts clearly and correctly in writing.	1. Thought & Detail	10%
	2. Writing Skills	5%
Major Assignment		
The writing assignment sets a specific writing task, but allows the student to choose his own method of development and to select supporting details from personal experience with literature that he has studied. The writing assignment is generated from literary selections and requires the student to understand literal and implied meanings and to synthesize his thoughts clearly and correctly in writing.	1. Total Impression	5%
	2. Thought & Detail	15%
	3. Organization	5%
	4. Matters of Choice	5%
	5. Matters of Convention	5%
		50%

Table 4

Percentage Distribution of Scores on English 30 Part A
Minor Assignments (Personal Response and Critical Response)

Score Scale Points	Personal Response Reporting Category		Critical Response Reporting Category	
	Thought & Detail	Writing Skills	Thought & Detail	Writing Skills
5 (Exceptional)	3.2	2.6	2.2	2.4
4 (Proficient)	25.7	36.5	18.5	30.9
3 (Satisfactory)	59.4	52.0	42.2	53.5
2 (Limited)	9.7	6.8	27.7	8.4
1 (Poor)	0.7	0.8	5.7	1.1
0 (Insufficient or no response)	1.3	1.3	3.7	3.7

Table 5

Percentage Distribution of Scores on English 30 Part A
Major Assignment

Score Scale Points	Reporting Category				
	Total Impression	Thought and Detail	Organiz-ation	Matters of Choice	Matters of Convention
5 (Exceptional)	1.7	1.8	2.5	2.5	4.0
4 (Proficient)	15.3	13.6	20.7	22.0	33.9
3 (Satisfactory)	53.9	41.6	56.8	60.4	49.9
2 (Limited)	25.8	37.3	17.4	12.2	9.4
1 (Poor)	1.8	4.2	1.1	1.4	1.3
0 (Insufficient or no response)	1.5	1.5	1.5	1.5	1.5

Table 6

January 1985 English 30 Diploma Examination Blueprint
Part B: Reading (Multiple Choice)

Reporting Category	Questions by Cognitive Level			Exam Emphasis
	Literal Understanding	Inference and Application	Evaluation	
Meanings	1,6,8,20,36, 38,61,62	2,7,9,23,26, 27,29,30,33, 34,35,41,42, 43,44,56,64, 66,68,69,70, 71,76	10,32,67*, 80	22%
Critical Response		3,4,5,13,16, 19,21,31,45, 51,52,63,65, 73,74,77,78, 79	24,28,53, 59,60	14%
Human Experience and Values	48	11,12,14,15, 17,18,37,39, 47,54,55,57*, 58,75	22,25,40, 46,49,50, 72	14%
Exam Emphasis	6%	34%	10%	50%

*Questions 57 and 67 were deleted from the examination.

Table 7

Raw Score Results for English 30 Part B

Reporting Category	Average	Standard Deviation
1. Meanings (34 questions)	22.1	4.5
2. Critical Response (23 questions)	14.4	3.1
3. Human Experience and Values (21 questions)	13.9	3.1

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 8. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 8

Results for Individual Multiple-Choice Questions
English 30

Item	Key	Distribution of Responses in %* A	B	C	D	Item	Key	Distribution of Responses in %* A	B	C	D
1	A	79.6	2.8	2.3	15.2	41	C	3.6	9.3	54.5	32.6
2	C	11.4	12.9	74.0	1.6	42	B	14.8	62.0	10.7	12.4
3	A	84.0	3.3	7.4	5.3	43	A	74.2	7.4	17.5	1.0
4	B	9.7	61.7	20.3	8.2	44	C	4.8	13.1	79.3	2.7
5	C	1.4	6.6	84.4	7.5	45	C	13.3	23.3	40.0	23.3
6	B	4.4	49.6	39.4	6.6	46	D	4.7	6.0	25.6	63.7
7	C	4.0	9.8	74.4	11.8	47	B	13.2	64.4	17.1	5.3
8	C	1.4	9.7	73.8	15.1	48	B	49.3	41.2	3.0	6.4
9	A	60.7	33.6	2.7	3.0	49	D	9.7	11.4	5.9	73.0
10	D	2.6	6.5	18.9	72.0	50	A	68.9	2.6	19.8	8.6
11	B	6.3	70.3	11.0	12.3	51	D	14.6	10.2	18.1	57.0
12	B	5.6	56.4	25.4	12.5	52	A	92.9	3.3	0.8	3.0
13	B	11.6	63.6	20.5	4.2	53	D	1.6	3.1	37.1	58.1
14	C	3.7	10.8	68.0	17.4	54	C	3.0	6.9	86.8	3.3
15	D	3.8	8.9	36.9	50.4	55	A	71.3	0.5	16.6	11.6
16	B	7.4	74.1	10.6	7.9	56	B	35.7	40.4	2.1	21.7
17	A	77.8	6.1	7.3	8.8	57	-	-	-	-	-
18	C	7.5	13.4	66.2	12.8	58	B	12.2	58.2	5.9	23.7
19	C	21.2	40.2	32.6	5.9	59	D	20.6	21.3	4.2	53.9
20	D	1.8	13.7	40.4	44.0	60	B	12.4	28.0	7.8	51.7
21	D	12.1	10.6	16.7	60.5	61	A	81.8	8.2	5.4	4.6
22	D	4.8	1.8	2.0	91.4	62	D	10.0	14.9	22.9	52.0
23	B	2.3	94.2	1.7	1.8	63	D	0.8	7.6	3.9	87.6
24	B	13.0	74.8	7.5	4.7	64	D	6.1	3.9	19.2	70.6
25	A	74.5	15.0	3.0	7.4	65	B	15.8	39.4	9.2	35.5
26	C	8.3	15.9	42.1	33.5	66	A	64.8	8.6	15.5	11.0
27	B	13.6	45.2	22.8	18.4	67	-	-	-	-	-
28	C	4.9	4.0	80.8	10.3	68	B	7.6	60.6	14.0	17.6
29	D	4.4	20.2	16.6	58.8	69	A	94.7	1.9	0.9	2.3
30	C	7.6	8.4	60.3	23.6	70	B	15.4	40.9	8.0	35.5
31	A	63.3	9.1	15.7	11.8	71	D	4.8	11.9	8.9	74.3
32	A	66.9	9.8	15.4	7.8	72	D	4.1	36.0	7.7	52.0
33	A	71.0	15.2	9.4	4.4	73	A	28.5	21.7	38.0	11.5
34	C	1.3	24.9	64.0	9.8	74	C	4.4	13.8	70.1	11.5
35	D	12.6	16.5	21.9	48.9	75	D	4.4	5.3	10.6	79.3
36	A	72.3	23.3	2.6	1.8	76	C	2.3	1.7	61.0	34.7
37	A	56.0	16.6	11.3	16.0	77	A	89.3	5.9	3.8	0.6
38	A	84.4	1.1	12.5	2.0	78	D	8.4	16.3	1.7	73.1
39	D	5.5	9.7	13.8	70.9	79	B	13.3	42.5	24.4	19.4
40	C	17.7	16.2	51.5	14.4	80	D	9.9	9.1	14.6	65.8

*The sum of the percentages for each question may be less than 100% because the No Response category is not included. This category is not greater than 0.5% for all questions.

SECTION 3: ENGLISH 33 DIPLOMA EXAMINATION

The English 33 Diploma Examination consists of two parts: Part A: Written Response and Part B: Reading (Multiple Choice), each worth 50% of the total examination mark.

Table 9 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in English 33. Table 10 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 4308 students. Differences between total averages and component averages are due to rounding.

Table 9

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
English 33

Score	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark
A (80-100%)	3.4	7.8	3.3
B (65-79%)	33.3	47.9	42.6
C (50-64%)	51.9	36.6	49.4
F (0-49%)	11.7	7.6	4.8
Average (%)	60.5	65.4	63.4
Standard Deviation	10.6	10.7	9.1

Table 10

Multiple Choice and Written Response Raw Score Totals
English 33

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Part A: Written Response	50	50	31.9	5.5
Part B: Multiple Choice	64	50	42.8	8.9

Table 11

January 1985 English 33 Diploma Examination Blueprint
Part A: Written Response

Description of the Writing Assignment	Reporting Category	Proportion of Total Mark
Personal Response to Literature The student is required to read a short literary selection that serves as a stimulus for a personal or reflective response.	1. Thought & Detail	10%
	2. Organization	5%
	3. Matters of Choice	5%
	4. Matters of Convention	5%
Functional Writing The student is required to write within a given situation or context.	1. Thought & Detail	10%
	2. Matters of Choice	5%
Critical Response Writing assignments are connected to a cartoon. The student is required to write about main ideas, techniques of communication, and personal reactions.	1. Thought & Detail	5%
	2. Matters of Convention	5%
		50%

Table 12

Percentage Distribution of Scores on English 33 Part A
Section I: Personal Response to Literature

Score Scale Points	Reporting Category			
	Thought & Detail	Organization	Matters of Choice	Matters of Convention
5 (Proficient)	2.9	3.6	3.6	5.3
4 (Capable)	30.5	37.0	30.2	39.2
3 (Adequate)	55.6	54.4	57.8	43.3
2 (Limited)	10.1	4.4	7.2	10.4
1 (Poor)	0.8	0.4	0.9	1.6
0 (Insufficient or no response)	0.2	0.2	0.2	0.2

Table 13

Percentage Distribution of Scores on English 33 Part A
Section II: Functional Writing

Score Scale Points	Reporting Category		
	Thought & Detail	Matters of Choice	Matters of Convention
5 (Proficient)	2.4	1.1	4.0
4 (Capable)	23.5	21.5	36.0
3 (Adequate)	48.2	66.0	46.5
2 (Limited)	23.1	9.4	10.7
1 (Poor)	1.6	0.8	1.6
0 (Insufficient or no response)	1.2	1.2	1.2

Table 14

Percentage Distribution of Scores on English 33 Part A
Section III: Response to Visual Communication

Score Scale Points	(Question 1) Reporting Category		(Question 2) Reporting Category	
	Thought & Detail	Matters of Choice	Thought & Detail	Matters of Choice
5 (Proficient)	4.2	3.8	2.3	3.1
4 (Capable)	29.2	35.7	16.2	28.3
3 (Adequate)	48.1	46.1	36.3	48.5
2 (Limited)	14.3	11.5	32.9	12.1
1 (Poor)	2.7	1.5	6.1	1.8
0 (Insufficient or no response)	1.5	1.5	6.2	6.2

Table 15

January 1985 English 33 Diploma Examination Blueprint
Part B: Reading (Multiple Choice)

Reporting Category	Questions by Cognitive Level			Exam Emphasis
	Literal Understanding	Inference and Application	Evaluation	
Meanings	32,49,56	3,4,7,9,12, 14,29,31,34, 37,39,45,50, 60,62,64	2,8,44, 51,59,63	19%
Relationships of Form and Content	35	10,28,33*,40, 41,43,55,57, 58,65		9%
Human Experience and Values	27,38	1,5,11,30,36, 42,47,48,52, 53,54,61	6,13,46	13%
Life Skills	15,16,18,21, 22	17,19,20,24, 25,26	23	9%
Exam Emphasis	8%	34%	8%	50%

*Question 33 was deleted from the examination.

Table 16

Raw Score Results for English 33 Part B

Reporting Category	Average	Standard Deviation
1. Meanings (25 questions)	15.4	4.2
2. Relationships: Form & Content (10 questions)	7.0	1.9
3. Human Experience and Values (17 questions)	11.5	2.9
4. Life Skills (12 questions)	9.0	2.0

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 17. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 17

Results for Individual Multiple-Choice Questions
English 33

Item	Key	Distribution of Responses in %* A	B	C	D	Item	Key	Distribution of Responses in %* A	B	C	D
1	A	51.7	5.2	23.5	19.5	34	B	11.8	51.0	7.1	30.0
2	C	19.4	15.1	41.6	24.0	35	A	51.1	13.6	25.5	9.8
3	D	7.0	10.7	9.3	73.0	36	A	67.2	4.3	11.4	17.1
4	A	68.8	9.4	8.9	12.8	37	C	25.9	0.8	64.4	8.9
5	A	67.3	4.5	8.4	19.7	38	D	1.7	11.4	10.6	76.2
6	A	49.6	9.4	26.5	14.4	39	D	5.4	21.7	16.0	56.8
7	A	60.9	5.3	2.1	31.7	40	C	12.3	7.2	77.9	2.5
8	B	2.2	86.3	1.8	9.7	41	D	30.6	16.0	5.5	47.8
9	B	32.7	40.3	11.4	15.6	42	C	6.5	27.1	65.4	0.9
10	C	4.4	1.8	74.8	19.0	43	D	11.3	1.8	13.5	73.3
11	C	6.2	4.7	77.6	11.5	44	D	15.2	11.1	5.1	68.5
12	B	3.2	36.5	15.5	44.9	45	C	9.8	24.2	58.9	7.0
13	A	65.8	13.5	12.2	8.5	46	D	1.2	26.2	6.9	65.7
14	C	22.6	26.4	44.5	6.5	47	B	10.8	76.3	10.9	1.9
15	D	1.2	11.2	11.0	76.5	48	D	16.2	7.0	4.6	72.2
16	B	5.0	64.6	7.4	23.0	49	C	9.1	6.1	74.5	10.2
17	D	1.7	2.2	0.9	95.2	50	D	2.7	7.3	13.1	77.0
18	B	2.9	91.0	4.0	1.9	51	B	7.8	68.9	4.3	18.9
19	D	17.8	4.6	5.7	71.8	52	C	0.9	5.5	84.7	8.7
20	D	7.4	9.7	5.6	77.2	53	A	67.3	18.3	7.9	6.5
21	B	14.1	74.4	5.3	6.1	54	C	10.0	3.4	76.5	10.0
22	C	3.5	3.9	91.9	0.6	55	A	86.4	2.0	8.1	3.4
23	B	2.6	89.2	3.9	4.2	56	C	2.2	6.0	67.1	24.6
24	B	8.0	62.3	26.4	3.2	57	B	26.0	62.3	5.6	6.0
25	B	26.1	54.0	5.0	14.7	58	B	3.5	77.4	6.4	12.5
26	C	32.1	9.5	48.3	10.0	59	A	53.6	28.6	5.5	12.0
27	C	16.1	5.9	67.5	10.4	60	B	7.2	65.2	6.2	21.0
28	A	63.2	12.6	12.1	12.1	61	D	25.2	5.0	12.8	56.9
29	B	19.0	72.5	2.1	6.4	62	C	3.3	6.2	58.9	31.4
30	A	60.4	27.7	7.1	4.7	63	D	14.5	15.4	2.3	67.6
31	B	20.1	66.3	3.2	10.3	64	C	10.2	19.4	60.7	9.5
32	D	9.8	24.0	3.8	62.3	65	C	7.0	6.8	83.6	2.1
33	-	-	-	-	-						

*The sum of the percentages for each question may be less than 100% because the No Response category is not included. This category is not greater than 0.5% for all questions.

SECTION 4: SOCIAL STUDIES 30 DIPLOMA EXAMINATION

The Social Studies 30 Diploma Examination consists of both multiple-choice questions (worth 70% of the total examination mark) and written-response questions (worth 30% of the total examination mark).

Table 18 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in Social Studies 30. Table 19 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 7760 students. Differences between total averages and component averages are due to rounding.

Table 18

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
Social Studies 30

Score	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark
A (80-100%)	13.3	13.4	12.0
B (65-79%)	37.1	34.5	37.5
C (50-64%)	41.4	34.3	41.8
F (0-49%)	8.2	17.9	8.7
Average (%)	64.7	63.3	64.4
Standard Deviation	12.1	14.0	12.2

Table 19

Multiple Choice and Written Response Raw Score Totals
Social Studies 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Written Response	30	30	15.6	4.7
Multiple Choice	68	70	46.2	10.5

Table 20

January 1985 Social Studies 30 Diploma Examination Blueprint
Part A: Multiple Choice

Content Category	Questions by Process Category					Exam Emphasis
	Recall & Comp.	Inquiry Skills A[1]	Inquiry Skills B[2]	Inquiry Skills C[3]	Valuing Skills	
Value Concepts competing values & value positions - Topic A - Topic B	 8,27, 58,70				 7,24, 52,55	8%
Political and Economic Systems facts, concepts, & generalizations	1,2,3,6, 10,11, 12,13, 14,15, 16,18, 19,21, 25,26	23,28, 29	4,9,17, 20,22, 30,31, 32,35	5,33, 34		31%
Co-operation & Conflict Among States facts, concepts, & generalizations	36,37, 38,39, 40,47, 49,50, 51,56, 57,59, 61,62, 63,68	41,45, 46	42,43, 44,48, 53,54*, 65,66, 69	60,64*, 67		31%
Examination Emphasis	36%	6%	18%	6%	4%	70%

*Questions 54 and 64 were deleted from the examination.

[1]Inquiry Skills A -- Identify and focus on the issue and formulate research questions.

[2]Inquiry Skills B -- Gather, organize, analyze, evaluate, and synthesize data.

[3]Inquiry Skills C -- Resolve the issue, apply the decision, and evaluate decision, process, and action.

Table 21

Raw Score Results for Social Studies 30 Part A

Reporting Category	Average	Standard Deviation
1. Recall & Comprehension (32 questions)	21.8	5.3
2. Inquiry Skills: Identify Issue (6 questions)	4.0	1.4
3. Inquiry Skills: Gather & Use Data (17 questions)	11.5	3.0
4. Inquiry Skills: Resolve & Decide (5 questions)	3.1	1.3
5. Valuing (8 questions)	5.8	1.6
6. Political & Economic Systems (35 questions)	25.4	5.7
7. Co-operation & Conflict (33 questions)	20.9	5.5

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 22. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 22

Results for Individual Multiple-Choice Questions
Social Studies 30

Item	Key	Distribution of Responses in %* A	B	C	D	Item	Key	Distribution of Responses in %* A	B	C	D
1	A	91.8	1.8	4.3	1.9	36	C	13.2	34.3	49.5	2.9
2	D	11.5	8.2	5.3	75.0	37	A	71.4	17.4	7.4	3.7
3	B	4.2	70.5	12.3	12.8	38	B	4.3	67.8	12.4	15.5
4	A	66.1	2.1	7.2	24.5	39	D	14.9	3.9	22.4	58.7
5	B	7.5	75.6	7.9	8.9	40	D	15.1	20.7	5.5	58.6
6	C	3.3	8.2	79.9	8.5	41	B	31.4	61.0	4.4	3.0
7	D	16.0	1.9	6.4	75.7	42	A	28.4	3.9	3.1	64.5
8	C	2.8	9.5	84.9	2.8	43	D	10.3	34.3	8.5	46.8
9	C	7.0	19.4	66.8	6.7	44	C	14.5	2.4	66.9	16.1
10	B	6.5	82.5	4.1	6.9	45	A	48.1	15.7	22.5	13.8
11	D	8.6	16.7	10.8	63.7	46	D	3.4	20.1	13.4	63.1
12	A	82.1	13.8	2.0	2.1	47	A	74.5	10.6	8.5	6.4
13	C	12.1	36.6	38.6	12.6	48	C	5.4	7.8	67.2	19.4
14	A	64.4	18.8	4.6	12.2	49	A	77.2	6.8	8.8	7.2
15	D	16.1	7.2	20.1	56.4	50	B	3.0	79.0	9.2	8.8
16	B	1.5	84.9	10.7	2.8	51	C	20.0	12.6	64.5	2.8
17	C	4.2	5.5	85.4	4.9	52	A	92.1	2.0	0.9	4.9
18	B	10.6	59.8	3.1	26.3	53	B	3.6	81.1	11.3	4.0
19	A	78.7	4.3	9.6	7.3	54	-	-	-	-	-
20	B	2.6	81.1	2.8	13.5	55	D	7.1	4.5	6.6	81.7
21	D	15.1	8.8	12.0	64.1	56	C	2.0	4.9	87.4	5.7
22	A	62.1	17.1	6.4	14.4	57	D	22.6	10.4	17.6	49.4
23	A	79.7	11.0	2.0	7.3	58	A	40.3	21.6	20.4	17.6
24	B	12.1	74.4	3.5	10.0	59	D	3.9	14.2	24.0	57.9
25	B	2.8	73.3	14.5	9.3	60	B	13.7	54.1	16.4	15.6
26	D	16.3	19.9	6.3	57.5	61	D	2.4	13.2	23.0	61.3
27	A	62.2	3.7	1.9	32.1	62	A	88.6	6.3	3.1	1.9
28	C	9.8	15.8	71.7	2.6	63	D	8.7	4.6	35.9	50.7
29	A	73.6	13.8	10.7	1.9	64	-	-	-	-	-
30	B	7.8	68.8	7.0	16.4	65	C	4.5	40.4	47.8	7.2
31	C	4.8	5.8	84.2	5.1	66	C	5.1	19.7	64.3	10.8
32	C	2.2	10.2	82.5	5.0	67	D	3.1	13.0	30.7	53.2
33	B	23.6	67.6	5.0	3.8	68	A	60.8	15.1	20.3	3.7
34	D	32.4	5.3	4.8	57.5	69	B	18.8	62.5	13.2	5.5
35	C	1.9	3.1	91.4	3.6	70	B	8.7	69.6	10.1	11.5

*The sum of the percentages for each question may be less than 100% because the No Response category is not included. This category is not greater than 0.5% for all questions.

Table 23

January 1985 Social Studies 30 Diploma Examination Blueprint
Part B: Written Response

Description of Writing Assignment	Reporting Category	Proportion of Total Mark
One complete and unified essay in which the student integrates steps of the inquiry process in dealing with a given issue.	1. Explanation of issue	5%
	2. Description and evaluation of an action or actions	10%
	3. Presentation and defence of a position on the issue	10%
	4. Quality of language and expression	5%
		30%

Table 24

Percentage Distribution of Scores on Social Studies 30 Part B

Score Scale Points	Reporting Category			
	Explanation of the Issue	Description & Evaluation of Action(s)	Defence of a Position	Quality of Expression
5 (Exceptional)	1.8	2.2	1.1	1.4
4 (Proficient)	13.2	15.6	9.5	16.7
3 (Satisfactory)	33.9	37.6	38.7	60.9
2 (Limited)	35.9	31.1	39.9	19.4
1 (Poor)	14.6	11.1	9.5	1.4
0 (Insufficient or no response)	0.7	2.5	1.2	0.2

SECTION 5: MATHEMATICS 30 DIPLOMA EXAMINATION

The Mathematics 30 Diploma Examination consists of both multiple-choice questions (worth 80% of the total examination mark) and written-response questions (worth 20% of the total examination mark).

Table 25

January 1985 Mathematics 30 Diploma Examination Blueprint

Subject Strand	Questions by Cognitive Level				Exam Emphasis
	Knowledge	Comprehension	Application	Open Search	
Trigonometry	9	2,3,4,5,8, 10	1,6,11,12, 13,[1]	7	23%
Quadratic Relations	16,17, 22	15,20,21,23	14,18,19, [2]	24	21%
Sequences, Series, Limits	30	25,27,29,31	28,32,33, [3]	26*	19%
Statistics	35	34,39	37,38,41, [4]	36,40	15%
Logarithms	45	42,43,44,47	46	48	11%
Polynomial Functions		[5]	49,50,51, 52		11%
Exam Emphasis	11%	35%	45%	9%	100%

*Question 26 was deleted from the examination.

NOTE: Numbers in brackets [] indicate the written-response questions.

Provincial Averages

Table 26 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in Mathematics 30. Table 27 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 7954 students. Differences between total averages and component averages are due to rounding.

Table 26

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
Mathematics 30

Score	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark
A (80-100%)	20.1	23.4	20.0
B (65-79%)	32.9	26.8	32.5
C (50-64%)	36.2	29.4	35.4
F (0-49%)	10.8	20.4	12.1
Average (%)	65.9	64.6	65.7
Standard Deviation	14.3	17.3	14.9

Table 27

Multiple Choice and Written Response Raw Score Totals
Mathematics 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Written Response	13	20	7.3	3.7
Multiple Choice	51	80	34.2	8.2

Table 28

Provincial Raw Score Averages for Subtests
Mathematics 30

	Total Marks Possible			Raw Score Averages		
Subtest	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Trigonometry	2	13	15	1.1	8.3	9.4
Quadratic Relations	3	11	14	1.9	7.1	9.0
Sequences, Series, and Limits	3	8	11	1.5	6.0	7.5
Statistics	2	8	10	1.3	5.3	6.6
Logarithms	-	7	7	-	5.0	5.0
Polynomial Functions	3	4	7	1.5	2.5	4.0

Table 29

Provincial Raw Score Averages for Cognitive Levels
Mathematics 30

Subtest	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Knowledge	-	7	7	-	4.7	4.7
Comprehension	3	20	23	1.5	14.6	16.1
Application	10	19	29	5.8	12.4	18.2
Open Search	-	5	5	-	2.3	2.3

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 30. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 30

Results for Individual Multiple-Choice Questions
Mathematics 30

Item	Key	Distribution of Responses in %* A	B	C	D	Item	Key	Distribution of Responses in %* A	B	C	D
1	D	4.2	10.8	6.1	78.8	27	B	13.3	74.0	7.4	5.2
2	B	6.1	62.4	16.1	15.2	28	A	88.1	4.7	4.1	3.0
3	B	12.8	52.0	20.7	14.0	29	D	10.6	13.0	7.0	69.2
4	C	11.4	10.0	72.5	5.9	30	C	14.9	13.1	63.7	8.1
5	D	7.1	6.3	9.8	76.7	31	A	88.0	5.0	3.0	4.0
6	D	22.4	10.2	16.3	50.7	32	C	8.5	10.3	58.9	22.1
7	D	44.7	5.5	18.4	31.3	33	B	23.4	60.8	7.8	7.5
8	A	44.2	28.6	19.3	7.7	34	C	1.2	3.0	90.8	5.0
9	B	3.8	80.5	11.3	4.3	35	B	7.9	58.7	20.9	12.3
10	C	3.4	12.5	80.5	3.6	36	D	8.4	10.4	19.7	61.3
11	A	77.7	6.2	7.7	8.3	37	A	70.8	9.1	16.9	3.1
12	A	73.9	9.6	9.8	6.5	38	B	3.0	80.7	5.3	10.9
13	D	14.3	13.7	23.3	48.2	39	C	3.3	3.6	82.4	10.7
14	C	12.1	19.1	63.4	4.7	40	A	37.2	19.0	15.4	28.0
15	C	0.6	3.7	92.6	2.9	41	B	15.4	42.2	30.0	12.0
16	D	11.0	21.9	12.0	54.9	42	A	81.1	6.4	8.6	3.7
17	B	22.7	54.8	11.9	10.5	43	D	7.0	17.0	12.8	63.0
18	D	22.4	5.9	9.5	62.1	44	A	78.5	9.3	7.8	4.3
19	C	10.0	20.0	56.2	13.5	45	B	28.5	64.1	5.2	2.1
20	A	66.2	5.2	11.6	16.9	46	B	5.3	89.4	4.0	1.1
21	B	13.2	52.5	9.5	24.6	47	B	15.1	63.3	13.8	7.6
22	C	2.5	1.0	88.5	7.9	48	A	57.0	7.7	21.0	13.4
23	C	1.9	24.0	72.3	1.8	49	B	4.1	78.2	14.3	3.3
24	D	7.0	19.3	28.1	44.6	50	D	13.9	12.2	17.9	55.6
25	A	95.5	2.7	1.3	0.4	51	D	8.7	12.5	23.2	54.8
26	-	-	-	-	-	52	A	47.3	25.2	14.4	11.5

*The sum of the percentages for some questions is less tha 100% because the No Response category is not included. This category is not greater than 1.6% for all questions.

Table 31

Distribution of Marks for Written-Response Questions
Mathematics 30

Question	Percentage of Students Obtaining Each Mark				
	NR*	0	1	2	3
1	5.1	33.6	9.8	51.6	-
2	7.0	23.7	6.7	8.4	54.1
3	7.1	24.2	14.4	26.7	27.6
4	6.5	23.6	13.3	56.6	-
5	12.6	14.9	20.1	25.1	27.3

*No Response

The total number of marks possible, the average mark awarded to students, and the difficulty level for each written-response question are summarized in Table 32. The difficulty level is the average divided by total marks possible.

Table 32

Average Marks Awarded for Written-Response Questions
Mathematics 30

Question	Total Marks	Average	Difficulty Level
1	2	1.1	0.56
2	3	1.9	0.62
3	3	1.5	0.50
4	2	1.3	0.63
5	3	1.5	0.51

SECTION 6: BIOLOGY 30 DIPLOMA EXAMINATION

The Biology 30 Diploma Examination consists of both multiple-choice questions (worth 80% of the total examination mark) and written-response questions (worth 20% of the total examination mark).

Table 33

January 1985 Biology 30 Diploma Examination Blueprint

Subject Matter	Questions by Cognitive Level			Exam Emphasis
	Knowledge	Application and Understanding	Higher Mental Activities	
Cellular Processes	1,4,6	2,3,5,7,[4]		9%
Homeostatic Mechanisms	9	8	10	3%
Nutrition	11,12,16, 17,22	13,14,15,18, 19,20,21,26	[1]	16%
Circulation	24,25,30, 33,34,35	23,27,28,29	31,32,[2]	16%
Gas Exchange	36,40	37,39,41,[6]	38	9%
Metabolism	42,43	44,45		4%
Excretion	47,48,49	46,50,51,[3]	52,53	11%
Nervous & Hormonal Systems	54,55,56, 58,59,64, 65,66,69	57,60,61,62, 63,67,68,[5]		19%
Movement	70,72	71		3%
Human Reproduction	73,78*, 79,80,[7]	74,75,76,77		10%
Exam Emphasis	39%	48%	13%	100%

*Question 78 was deleted from the examination.

NOTE: Numbers in brackets [] indicate the written-response questions.

In the table above, those questions identified with science process skills from the multiple-choice section of the examination are 7, 10, 14, 18, 19, 31, 32, 37, 38, 51, 52, 53, 71, 76, 77, and 78; those from the written-response section are 1, 2, 3, and 6. In the examination, science process skills received an emphasis of 29%.

Provincial Averages

Table 34 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in Biology 30. Table 35 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 6230 students. Differences between total averages and component averages are due to rounding.

Table 34

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
Biology 30

Score	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark
A (80-100%)	15.4	20.4	17.6
B (65-79%)	36.4	32.1	35.3
C (50-64%)	40.2	30.4	38.1
F (0-49%)	8.0	17.1	9.0
Average (%)	65.3	65.1	65.7
Standard Deviation	12.3	15.5	13.2

Table 35

Multiple Choice and Written Response Raw Score Totals
Biology 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Written Response	20	20	11.9	4.2
Multiple Choice	79	80	52.5	12.0

Table 36

Provincial Raw Score Averages for Subtests
Biology 30

Subtest	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Cellular Processes	2	7	9	1.3	5.3	6.6
Homeostatic Mechanisms	-	3	3	-	1.9	1.9
Nutrition	3	13	16	2.4	9.5	11.9
Circulation	4	12	16	1.9	7.1	9.0
Gas Exchange	3	6	9	1.9	4.3	6.2
Metabolism	-	4	4	-	2.1	2.1
Excretion	3	8	11	1.3	5.0	6.3
Nervous & Hormonal Systems	3	16	19	1.6	10.6	12.2
Movement	-	3	3	-	2.1	2.1
Human Reproduction	2	7	9	1.4	4.5	5.9
Process Skills	13	15	28	7.5	9.7	17.2

Table 37

Provincial Raw Score Averages for Cognitive Levels
Biology 30

Cognitive Levels	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Knowledge	2	36	38	1.4	24.6	26.0
Application and Understanding	11	37	48	6.2	24.0	30.2
Higher Mental Activities	7	6	13	4.3	3.8	8.1

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 38. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 38

Results for Individual Multiple-Choice Questions
Biology 30

Item	Key	Distribution of Responses in %*				Item	Key	Distribution of Responses in %*			
		A	B	C	D			A	B	C	D
1	A	84.8	4.6	8.8	1.8	41	A	71.4	18.4	6.1	4.1
2	B	14.0	73.9	7.5	4.5	42	C	6.1	8.8	72.8	12.3
3	A	81.3	2.6	6.4	9.7	43	A	45.5	32.2	8.7	13.4
4	B	14.0	60.5	6.1	19.2	44	A	44.5	14.3	13.0	28.2
5	D	10.0	14.2	9.6	66.1	45	C	7.4	6.5	50.0	36.0
6	B	3.7	85.9	5.5	4.8	46	B	53.2	30.4	11.6	4.7
7	B	9.1	73.1	13.9	3.8	47	C	8.3	21.4	64.5	5.7
8	A	32.7	8.3	23.2	35.6	48	A	81.8	0.6	17.3	0.4
9	A	80.6	6.6	9.6	3.0	49	B	2.0	83.4	8.5	6.1
10	B	9.1	80.5	8.8	1.6	50	A	58.4	19.6	11.1	10.9
11	C	7.9	12.0	68.1	11.9	51	A	59.5	9.7	18.4	12.2
12	C	4.3	9.0	72.4	14.2	52	B	25.5	48.5	12.7	13.3
13	B	6.5	70.5	9.5	13.4	53	B	12.1	68.5	8.8	10.6
14	B	10.7	78.1	9.2	2.0	54	D	10.2	7.5	6.6	75.6
15	B	4.1	93.1	0.8	1.9	55	C	12.2	7.6	73.4	6.7
16	D	3.6	5.8	5.1	85.6	56	C	2.5	4.4	89.3	3.7
17	D	10.1	2.8	4.0	83.0	57	A	56.7	28.2	8.2	6.8
18	B	7.1	73.7	4.6	14.6	58	B	6.2	70.1	15.3	8.4
19	A	54.8	6.5	12.1	26.6	59	B	11.3	75.8	6.1	6.8
20	D	15.0	4.7	15.2	65.0	60	A	76.2	3.2	5.2	15.5
21	D	8.4	2.5	7.2	81.9	61	C	7.5	12.6	69.2	10.6
22	B	3.1	67.6	5.0	24.3	62	A	46.4	35.2	11.2	7.2
23	A	49.3	23.0	24.0	3.6	63	C	33.9	10.1	49.1	6.8
24	D	8.2	15.3	22.8	53.5	64	D	3.4	28.4	3.2	64.9
25	C	5.9	13.0	63.5	17.6	65	B	21.7	60.0	4.8	13.4
26	D	10.7	21.6	15.2	52.5	66	D	2.4	1.9	37.4	58.3
27	D	5.8	15.7	13.3	65.3	67	D	6.2	8.3	7.3	78.0
28	D	13.9	2.5	2.1	81.5	68	C	25.8	5.1	58.1	11.1
29	B	4.7	84.5	5.3	5.4	69	B	5.5	56.9	15.0	22.5
30	C	53.7	7.1	29.6	9.5	70	A	83.6	2.5	0.2	8.7
31	B	29.9	16.8	3.6	49.7	71	D	14.6	20.9	29.1	35.3
32	B	11.9	74.1	11.8	2.2	72	B	2.5	81.9	2.8	12.8
33	B	20.9	71.5	2.8	4.8	73	A	66.5	7.6	11.6	14.2
34	B	16.1	50.0	24.1	9.8	74	C	0.4	3.0	89.3	7.3
35	B	9.4	65.5	16.2	8.7	75	A	70.3	15.4	7.8	6.5
36	D	8.8	11.3	4.9	75.0	76	D	9.3	22.2	12.3	56.2
37	B	1.6	94.2	1.6	2.6	77	A	65.8	13.3	7.4	13.4
38	D	2.1	2.7	5.8	89.3	78	-	-	-	-	-
39	A	57.7	20.3	9.7	12.3	79	C	9.3	15.9	73.1	1.6
40	C	29.7	9.3	46.3	14.6	80	D	13.0	40.3	17.3	29.2

*The sum of the percentages for some questions is less than 100% because the No Response category is not included. This category is not greater than 0.2% for all questions.

Table 39

Distribution of Marks for Written-Response Questions
Biology 30

Question	Percentage of Students Obtaining Each Mark					
	NR*	0	1	2	3	4
1	0.3	3.0	12.5	28.0	56.3	-
2	1.7	11.4	23.6	32.8	21.3	9.2
3	2.5	29.0	21.8	29.2	17.6	-
4	2.8	15.7	30.1	51.4	-	-
5	4.0	18.5	22.7	24.2	30.6	-
6	0.8	21.7	6.0	32.5	39.0	-
7	6.1	9.4	26.8	57.7	-	-

*No Response

The total number of marks possible, the average mark awarded to students, and the difficulty level for each written-response question are summarized in Table 40. The difficulty level is the average divided by total marks possible.

Table 40

Average Marks Awarded for Written-Response Questions
Biology 30

Question	Total Marks	Average	Difficulty Level
1	3	2.4	0.79
2	4	1.9	0.48
3	3	1.3	0.44
4	2	1.3	0.66
5	3	1.6	0.54
6	3	1.9	0.63
7	2	1.4	0.71

SECTION 7: CHEMISTRY 30 DIPLOMA EXAMINATION

The Chemistry 30 Diploma Examination consists of both multiple-choice questions (worth 80% of the total examination mark) and written-response questions (worth 20% of the total examination mark).

Table 41

January 1985 Chemistry 30 Diploma Examination Blueprint

Subject Matter	Questions by Cognitive Level			Exam Emphasis
	Knowledge	Application and Understanding	Higher Mental Activities	
Chemical Energetics	1,2,3,5, 6	4,7,8,9,10, 11,12,13,14, 16,17,18,[1]	15	32%
Acids and Bases	19,20,22, 23,24,26, 32,33	21,27,29,30, 31,36,37	25,28,34, 35,[2]	34%
Oxidation-Reduction	38,39,41, 42,47,48, 55	40,43,44,45, 49,50,51,52, 53,54,56	46,[3]	34%
Exam Emphasis	29%	48%	23%	100%

NOTE: Numbers in brackets [] indicate the written-response questions.

In the table above, those questions identified with science process skills from the multiple-choice section of the examination are 4, 13, 15, 25, 26, 34, 35, and 52; those from the written-response section are 1, 2, and 3. In the examination, science process skills received an emphasis of 31%.

Provincial Averages

Table 42 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in Chemistry 30. Table 43 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 5955 students. Differences between total averages and component averages are due to rounding.

Table 42

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
Chemistry 30

Score	School-Awarded Marks	Diploma Examination Mark	Final Blended Mark
A (80-100%)	18.7	21.6	19.8
B (65-79%)	35.7	29.1	33.9
C (50-64%)	36.8	31.3	36.5
F (0-49%)	8.8	18.1	9.9
Average (%)	66.3	65.1	66.1
Standard Deviation	13.3	16.2	14.0

Table 43

Multiple Choice and Written Response Raw Score Totals
Chemistry 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Written Response	14	20	6.5	3.2
Multiple Choice	56	80	39.0	8.9

Table 44

Provincial Raw Score Averages for Subtests
Chemistry 30

Subtest	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Chemical Energetics	4	18	22	1.2	12.3	13.5
Acids and Bases	5	19	24	1.6	13.5	15.1
Oxidation Reduction	5	19	24	3.7	13.3	17.0
Process Skills	14	8	22	6.5	4.9	11.4

Table 45

Provincial Raw Score Averages for Cognitive Levels
Chemistry 30

Cognitive Levels	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Knowledge	-	20	20	-	15.2	15.2
Application and Understanding	4	30	34	1.2	20.4	21.6
Higher Mental Activities	10	6	16	5.3	3.4	8.7

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 46. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 46

Results for Individual Multiple-Choice Questions
Chemistry 30

Item	Key	Distribution of Responses in %* A	B	C	D	Item	Key	Distribution of Responses in %* A	B	C	D
1	C	17.1	4.9	68.1	9.8	29	C	7.8	10.6	74.6	6.9
2	B	9.7	72.2	11.3	6.5	30	A	61.3	8.0	8.2	22.4
3	C	5.7	15.1	59.2	20.0	31	C	7.8	18.6	48.3	25.1
4	C	11.0	18.9	41.0	29.0	32	D	0.9	7.3	5.5	86.2
5	C	7.2	4.3	68.6	19.9	33	C	6.5	8.7	82.5	2.2
6	D	8.9	2.4	2.8	85.8	34	B	25.7	57.5	9.4	7.3
7	D	20.7	6.3	12.9	60.0	35	B	5.6	73.5	3.5	17.3
8	C	11.5	11.8	69.2	7.3	36	B	2.7	90.4	3.3	3.4
9	A	69.4	3.8	15.2	11.5	37	C	14.5	46.0	36.3	3.0
10	B	13.5	76.5	8.5	1.4	38	A	74.5	4.7	4.2	16.5
11	C	2.9	7.2	81.8	7.9	39	D	2.2	1.5	11.0	85.2
12	C	4.3	19.6	70.6	5.4	40	D	5.8	10.0	5.8	78.3
13	D	6.1	2.8	7.9	83.0	41	C	10.9	7.6	73.3	8.0
14	B	12.1	51.4	27.7	8.8	42	D	5.8	5.2	6.6	82.4
15	A	44.7	33.0	12.6	9.4	43	D	3.8	8.9	8.1	79.0
16	A	87.0	2.9	2.8	7.1	44	B	2.2	70.1	4.9	22.8
17	A	71.3	9.8	15.6	3.1	45	D	19.2	23.2	24.0	33.2
18	B	7.3	72.1	10.5	9.9	46	A	49.0	16.0	19.2	15.3
19	B	5.7	83.4	6.1	4.7	47	D	4.3	1.8	3.3	90.6
20	C	3.8	6.5	67.2	22.4	48	A	58.7	20.3	15.0	5.8
21	D	11.8	2.1	9.3	76.8	49	A	77.7	5.6	12.5	4.0
22	C	4.3	2.4	89.3	3.9	50	A	62.1	9.9	23.5	4.4
23	C	5.9	6.4	84.6	3.1	51	C	14.6	7.8	67.2	10.3
24	A	84.5	1.6	4.4	9.4	52	B	4.8	75.3	11.8	7.9
25	A	55.0	11.0	23.9	9.9	53	C	14.3	13.4	56.5	15.4
26	B	21.4	51.4	15.9	11.1	54	B	9.6	71.7	9.8	8.6
27	A	79.8	4.4	6.6	9.2	55	C	8.7	14.7	70.2	6.0
28	B	1.6	63.4	29.5	5.5	56	C	18.7	4.8	71.1	4.3

*The sum of the percentages for some questions is less than 100% because the No Response category is not included. This category is not greater than 1.2% for all questions.

Table 47

Distribution of Marks for Written-Response Questions
Chemistry 30

Question	Percentage of Students Obtaining Each Mark						
	NR*	0	1	2	3	4	5
1	2.5	40.7	18.6	22.8	10.3	5.2	-
2	10.1	23.2	15.9	27.4	8.4	7.0	8.0
3	2.0	1.4	5.4	12.2	17.4	25.1	36.5

*No Response

The total number of marks possible, the average mark awarded to students, and the difficulty level for each written-response question are summarized in Table 48. The difficulty level is the average divided by total marks possible.

Table 48

Average Marks Awarded for Written-Response Questions
Chemistry 30

Question	Total Marks	Average	Difficulty Level
1	4	1.2	0.29
2	5	1.6	0.33
3	5	3.7	0.73

SECTION 8: PHYSICS 30 DIPLOMA EXAMINATION

The Physics 30 Diploma Examination consists of both multiple-choice questions (worth 80% of the total examination mark) and written-response questions (worth 20% of the total examination mark).

Table 49

January 1985 Physics 30 Diploma Examination Blueprint

Subject Matter	Questions by Cognitive Level			Exam Emphasis
	Knowledge	Application and Understanding	Higher Mental Activities	
Light	1,2,5,6, 7	3,4,8,9,10, 11,[1]	[2]	23%
Electric and Magnetic Fields	15,16,17, 21,22,24, 25,[3]	12,13,14,18, 19,20,23,[3]	26	27%
EM Radiation	28,31,32, 33	29,30,34,35, 36,[3]	27	15%
Structure of Matter	43,44,46, 47	38,39,40,41, 42,45,48,49, 50	37	20%
Modern Physical Theories	51,53,54	52,55,56	[4]	15%
Exam Emphasis	35%	50%	15%	100%

NOTE: Numbers in brackets [] indicate the written-response questions.

In the table above, those questions identified with science process skills from the multiple-choice section of the examination are 8, 10, 18, 26, 27, 37, and 53; those from the written-response section are 1, 2, 3, and 4. In the examination, science process skills received an emphasis of 30%.

Provincial Averages

Table 50 contains percentage distributions for school-awarded marks, diploma examination marks, and final blended marks in Physics 30. Table 51 contains averages and standard deviations for the written-response questions and the multiple-choice questions. Averages are based on raw scores, which are the number of marks obtained on each part of the examination. The total marks possible are identified for the written-response and multiple-choice components.

Averages are based on the results achieved by 2962 students. Differences between total averages and component averages are due to rounding.

Table 50

Provincial Percentages of A, B, C, and F Grades, Averages and Standard Deviation of Scores
Physics 30

Score	School-Awarded Marks	Diploma Examination Mark	Final Blended Mark
A (80-100%)	20.6	22.6	20.5
B (65-79%)	37.0	30.4	35.8
C (50-64%)	34.4	29.7	34.7
F (0-49%)	7.9	17.3	9.0
Average (%)	67.1	65.5	66.7
Standard Deviation	13.2	16.2	13.9

Table 51

Multiple Choice and Written Response Raw Score Totals
Physics 30

Examination Section	Total Marks	Weighting (%)	Average	Standard Deviation
Written Response	14	20	5.5	3.9
Multiple Choice	56	80	40.3	8.5

Table 52

Provincial Raw Score Averages for Subtests
Physics 30

Subtest	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total Total
Light	5	11	16	2.1	8.0	10.1
Electric and Magnetic Fields	5	15	20	2.2	10.7	12.9
EM Radiation	-	10	10	-	7.4	7.4
Structure of Matter	-	14	14	-	10.3	10.3
Modern Physical Theories	4	6	10	1.1	3.9	5.0
Process Skills	14	7	21	5.4	4.3	9.7

Table 53

Provincial Raw Score Averages for Cognitive Levels
Physics 30

Cognitive Levels	Total Marks Possible			Raw Score Averages		
	Written Response	Multiple Choice	Total	Written Response	Multiple Choice	Total
Knowledge	-	23	23	-	15.6	15.6
Application and Understanding	7	30	37	3.3	22.7	26.0
Higher Mental Activities	7	3	10	2.2	2.0	4.2

Multiple-Choice Questions

The percentage of students choosing each response for each multiple-choice question is given in Table 54. The correct response (key) for each question is also identified. Schools may use this information in conjunction with the test and with school results on individual items to determine local strengths and weaknesses.

Table 54

Results for Individual Multiple-Choice Questions
Physics 30

Item	Key	Distribution of Responses in %*				Item	Key	Distribution of Responses in %*			
		A	B	C	D			A	B	C	D
1	A	88.9	1.8	0.5	8.7	29	C	3.7	1.6	92.4	2.2
2	D	2.9	12.3	1.5	83.3	30	D	13.5	10.0	3.6	72.8
3	C	13.1	4.6	81.5	0.7	31	C	1.6	6.8	83.7	7.9
4	D	15.0	4.7	4.3	75.7	32	C	6.8	17.7	70.1	5.4
5	C	4.5	6.2	82.5	6.8	33	D	10.6	17.3	15.0	56.8
6	D	0.8	4.5	16.1	78.5	34	D	4.1	22.8	8.1	64.9
7	C	16.3	21.9	59.1	2.6	35	C	18.7	13.8	59.6	7.8
8	D	2.7	11.1	16.3	69.8	36	A	74.8	8.8	1.6	14.7
9	B	1.4	75.7	21.6	1.3	37	D	6.3	10.4	13.8	69.1
10	C	5.8	63.3	29.1	1.7	38	C	2.5	4.1	85.6	7.7
11	A	72.5	3.5	6.1	17.8	39	C	2.4	14.3	80.6	2.5
12	D	5.2	2.5	2.2	90.0	40	B	5.3	83.2	6.2	5.0
13	D	10.9	1.5	1.3	86.2	41	A	78.4	7.3	9.0	5.3
14	A	71.6	17.6	4.9	5.7	42	C	2.7	2.1	91.5	3.6
15	C	3.9	12.8	73.4	9.9	43	C	21.2	8.0	49.7	21.0
16	B	27.7	70.0	1.8	0.5	44	A	74.9	13.5	4.1	7.4
17	C	15.0	8.5	67.8	8.7	45	B	2.3	91.0	4.4	2.1
18	B	5.8	76.4	12.6	5.1	46	A	61.3	14.2	19.3	5.2
19	C	14.8	3.4	77.3	4.3	47	D	21.0	4.2	21.0	53.7
20	C	3.8	10.1	69.9	16.0	48	A	95.4	2.3	0.6	1.7
21	D	34.7	2.4	1.6	61.3	49	A	60.4	10.8	12.5	16.2
22	D	4.5	15.3	5.5	74.6	50	C	26.3	9.9	57.7	5.9
23	B	0.5	91.7	3.5	4.2	51	D	14.1	6.3	5.1	74.5
24	C	16.7	2.9	42.1	38.2	52	A	65.0	13.2	13.5	7.7
25	C	14.2	7.4	60.3	18.0	53	B	16.1	49.6	20.9	13.2
26	B	9.6	54.2	20.5	15.0	54	C	5.6	8.3	61.4	24.6
27	C	5.9	8.5	78.9	6.5	55	B	12.8	57.1	23.7	5.6
28	A	86.2	7.4	4.4	1.9	56	C	2.5	4.0	85.2	7.0

*The sum of the percentages for some questions is less than 100% because the No Response category is not included. This category is not greater than 1.3% for all questions.

Table 55

Distribution of Marks for Written-Response Questions
Physics 30

Question	Percentage of Students Obtaining Each Mark						
	NR*	0	1	2	3	4	5
1	5.5	28.4	26.9	39.3	-	-	-
2	8.3	45.1	10.6	12.0	24.0	-	-
3	4.6	14.5	17.6	23.9	14.4	13.2	11.9
4	15.9	40.8	8.2	14.8	5.7	14.6	-

*No Response

The total number of marks possible, the average mark awarded to students, and the difficulty level for each written-response question are summarized in Table 56. The difficulty level is the average divided by total marks possible.

Table 56

Average Marks Awarded for Written-Response Questions
Physics 30

Question	Total Marks	Average	Difficulty Level
1	2	1.1	0.53
2	3	1.1	0.36
3	5	2.2	0.44
4	4	1.1	0.28

SECTION 9: SUMMARY OF RESULTS

In Table 57, the provincial distribution of student marks in the diploma examination courses is summarized. The percentage distribution for the school-awarded mark, the January 1985 diploma examination mark, and the final blended mark achieved by students is shown for each of the A, B, C, and F grade categories. In addition, a comparison with the June 1984 diploma examination course results is provided.

Table 57

Distribution of Student Marks in Diploma Examination Courses
January 1985 Examination Administration and June 1984 Final Course Mark

Diploma Examination Course	January 1985			June 1984 Final Mark
	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark	
English 30			N = 7 986	N = 11 717
A (80-100%)	10.2	5.1	5.4	7
B (65-79%)	39.9	35.0	39.9	39
C (50-64%)	42.0	48.1	49.2	49
F (0-49%)	7.9	11.8	5.5	5
Average (%)	64.2	61.9	63.5	63.7
Standard Deviation	11.5	11.0	10.0	10.4
English 33			N = 4 308	N = 5 943
A (80-100%)	3.4	7.8	3.3	2
B (65-79%)	33.3	47.9	42.6	36
C (50-64%)	51.9	36.6	49.4	56
F (0-49%)	11.7	7.6	4.8	6
Average (%)	60.5	65.4	63.4	61.8
Standard Deviation	10.6	10.7	9.1	9.2
Social Studies 30			N = 7 760	N = 9 444
A (80-100%)	13.3	13.4	12.0	9
B (65-79%)	37.1	34.5	37.5	37
C (50-64%)	41.4	34.3	41.8	44
F (0-49%)	8.2	17.9	8.7	10
Average (%)	64.7	63.3	64.4	63.4
Standard Deviation	12.1	14.0	12.2	12.2

(Continued)

Table 57 (continued)

Diploma Examination Course	January 1985			June 1984 Final Mark
	School-Awarded Mark	Diploma Examination Mark	Final Blended Mark	
Mathematics 30			N = 7 954	N = 8 696
A (80-100%)	20.1	23.4	20.0	17
B (65-79%)	32.9	26.8	32.5	29
C (50-64%)	36.2	29.4	35.4	39
F (0-49%)	10.8	20.4	12.1	15
Average (%)	65.9	64.6	65.7	63.4
Standard Deviation	14.3	17.3	14.9	15.3
Biology 30			N = 6 230	N = 7 623
A (80-100%)	15.4	20.4	17.6	13
B (65-79%)	36.4	32.1	35.3	31
C (50-64%)	40.2	30.4	38.1	42
F (0-49%)	8.0	17.1	9.0	14
Average (%)	65.3	65.1	65.7	63.0
Standard Deviation	12.3	15.5	13.2	13.6
Chemistry 30			N = 5 955	N = 7 729
A (80-100%)	18.7	21.6	19.8	21
B (65-79%)	35.7	29.1	33.9	32
C (50-64%)	36.8	31.3	36.5	35
F (0-49%)	8.8	18.1	9.9	12
Average (%)	66.3	65.1	66.1	65.8
Standard Deviation	13.3	16.2	14.0	15.1
Physics 30			N = 2 962	N = 4 706
A (80-100%)	20.6	22.6	20.5	20
B (65-79%)	37.0	30.4	35.8	35
C (50-64%)	34.4	29.7	34.7	34
F (0-49%)	7.9	17.3	9.0	11
Average (%)	67.1	65.5	66.7	66.2
Standard Deviation	13.2	16.2	13.9	14.6